

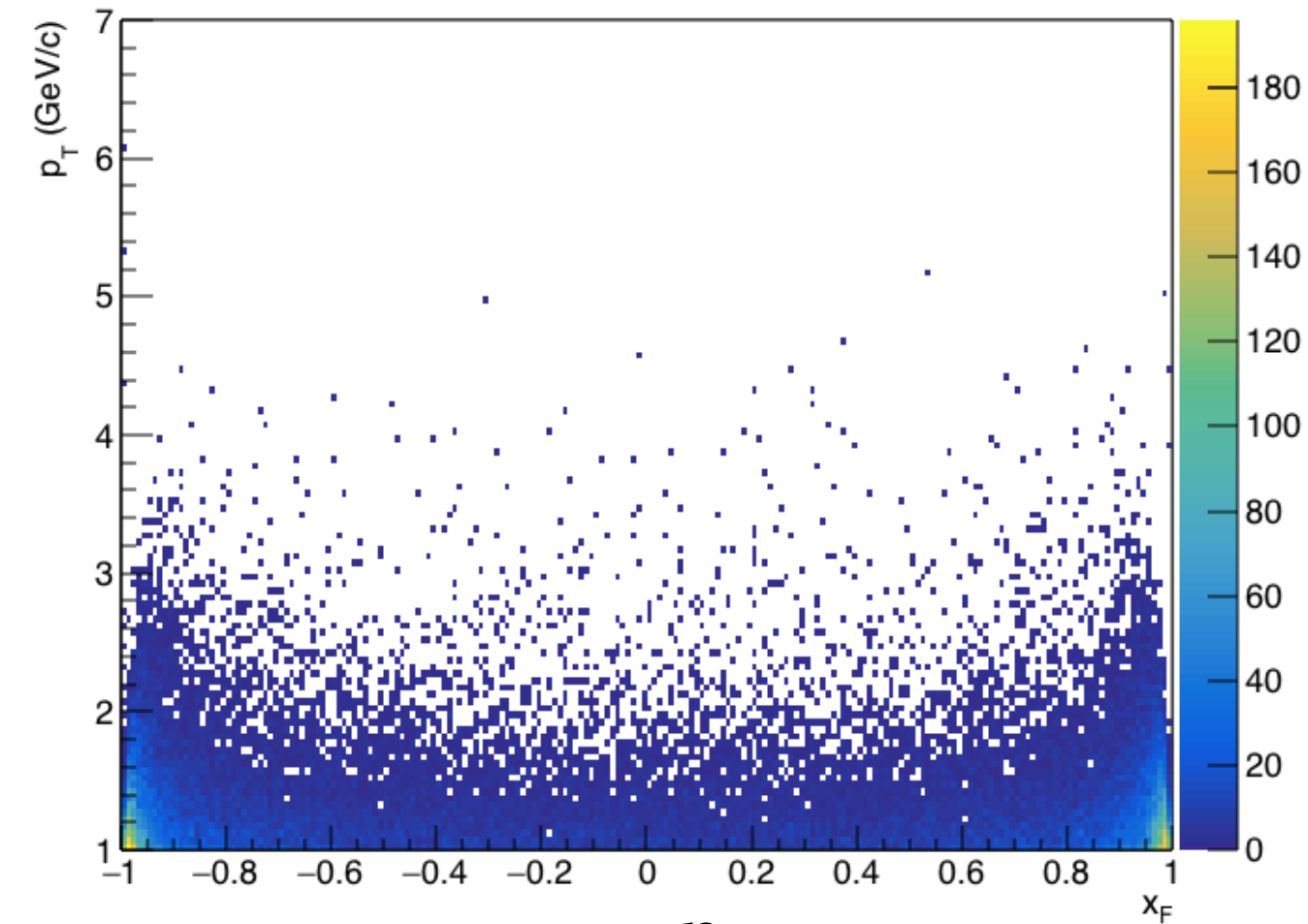
Track reconstruction in SPD barrel

Gridin Andrei (JINR)

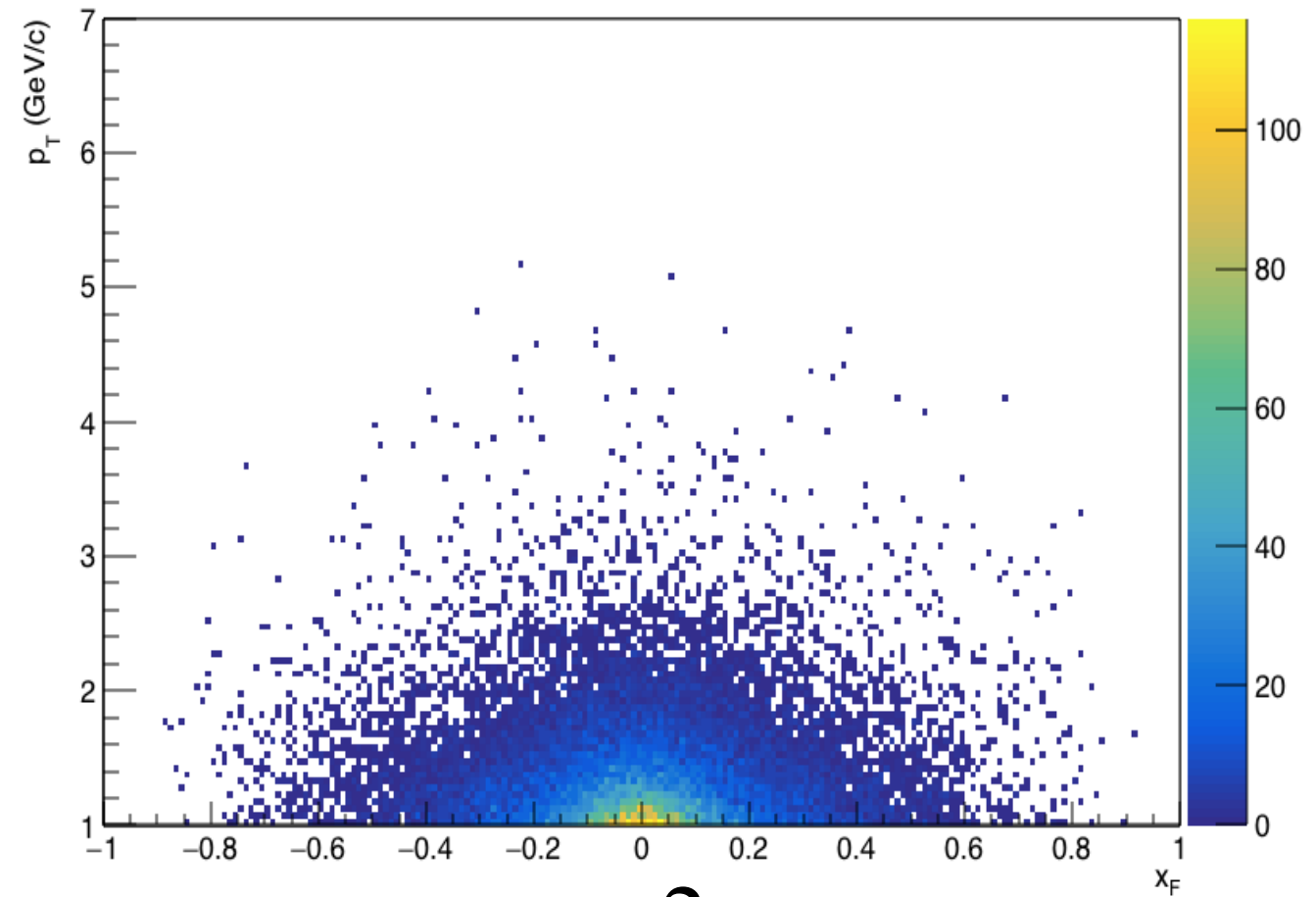
SPD MC meeting

08.04.2020

x_F definition

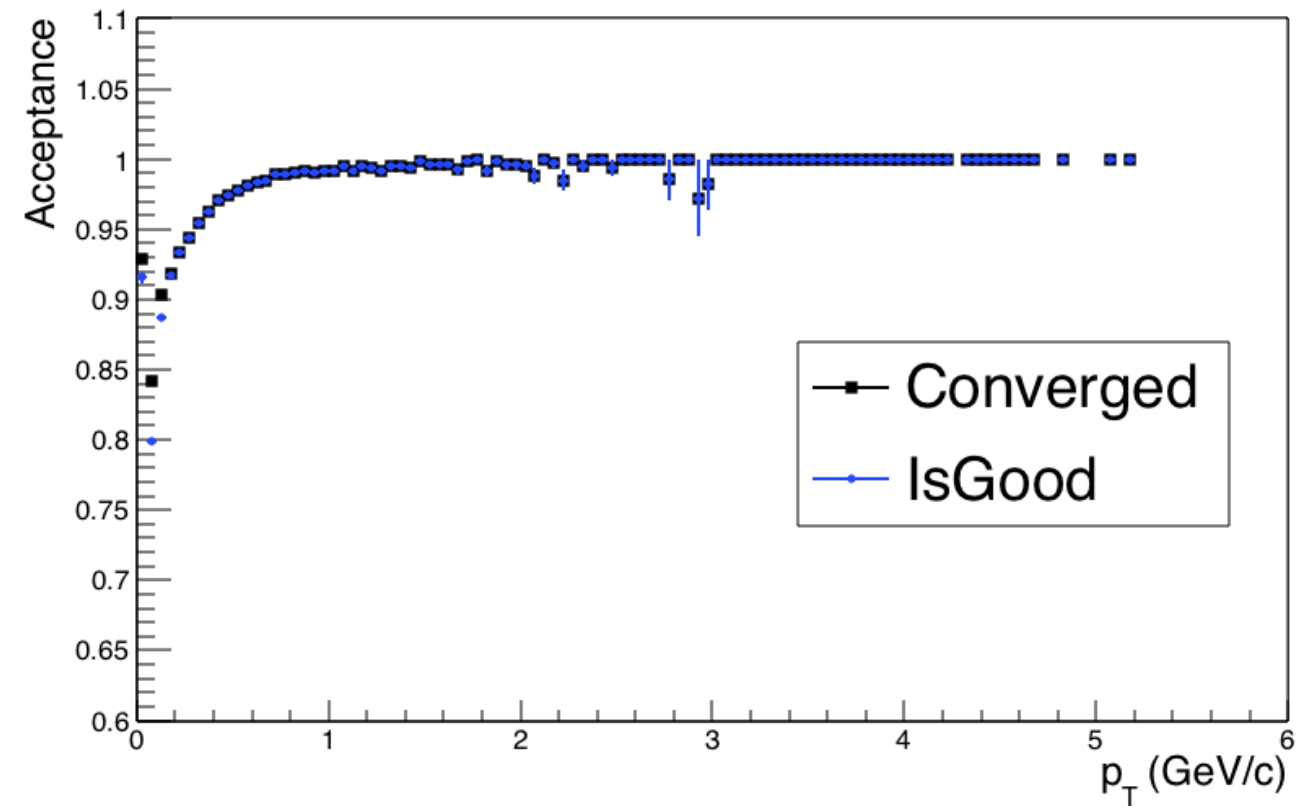
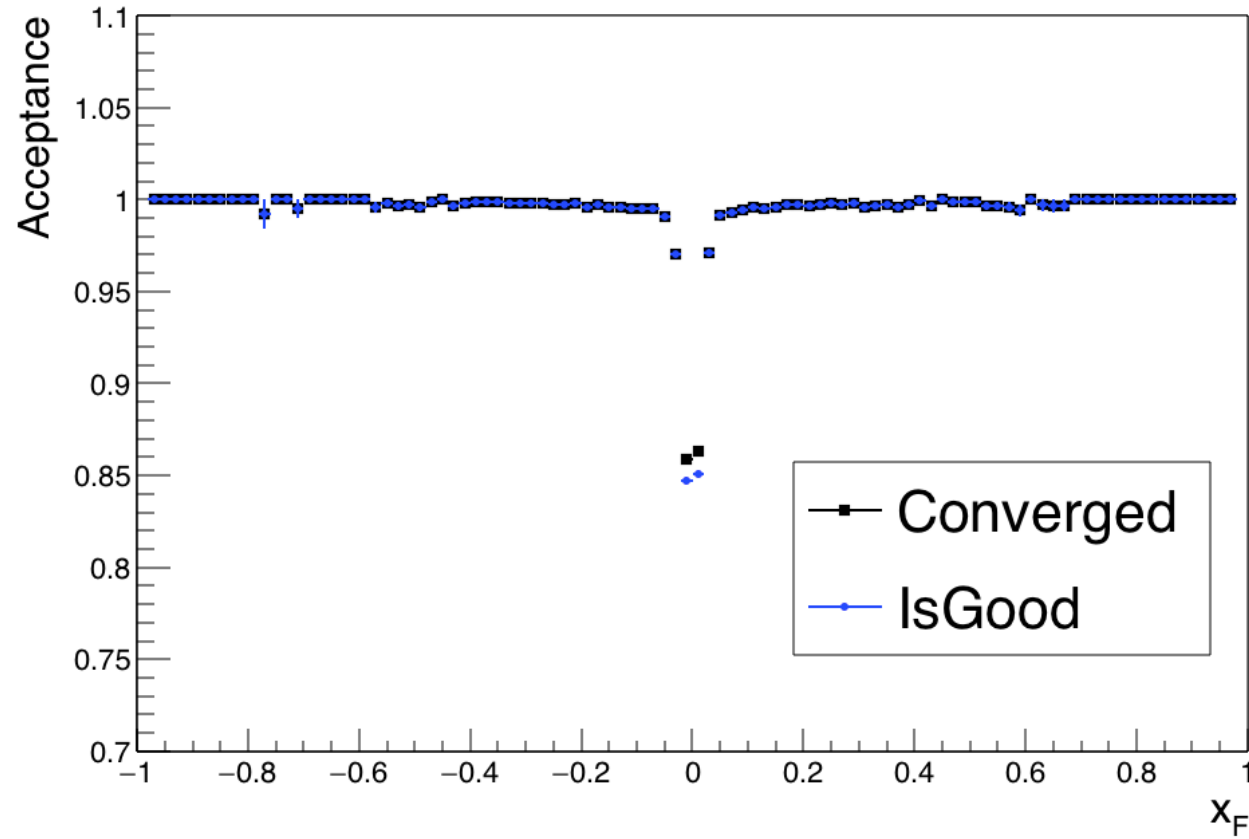


$$x_F = \frac{p_l}{|p|}$$

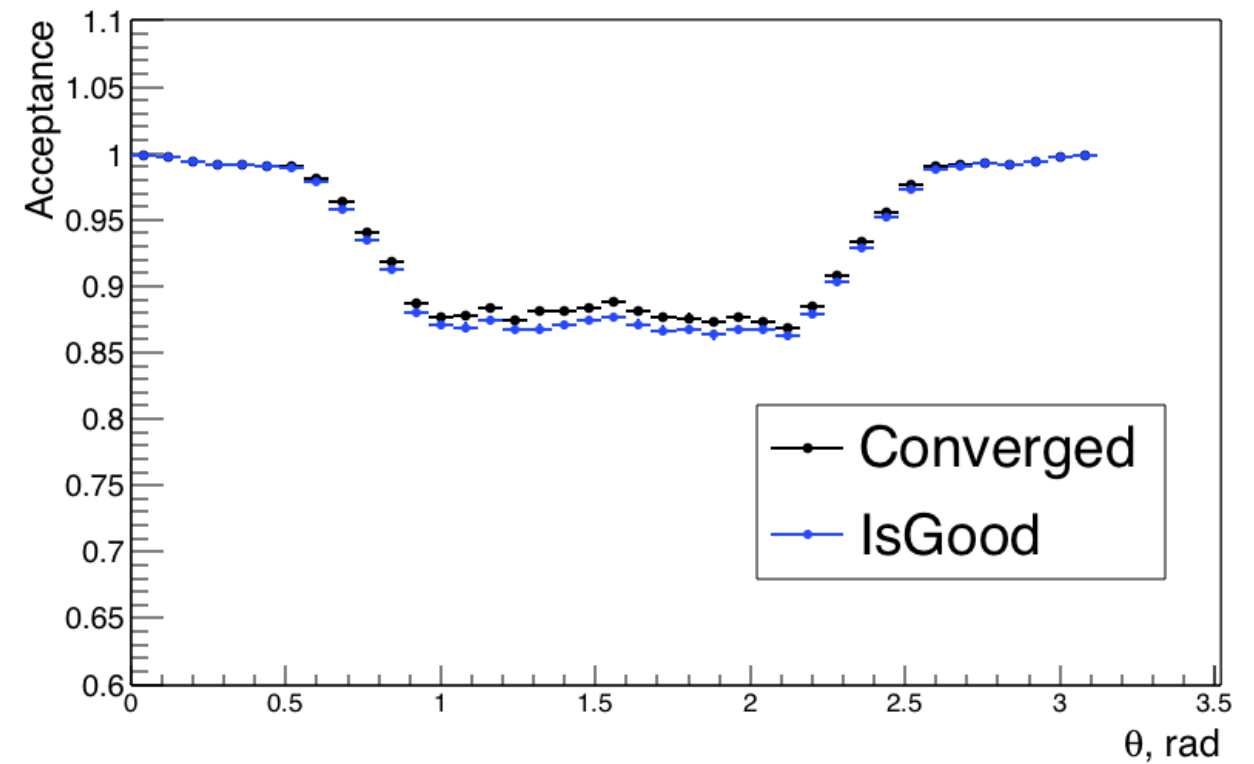


$$x_F = \frac{2 \cdot p_l}{\sqrt{s}}$$

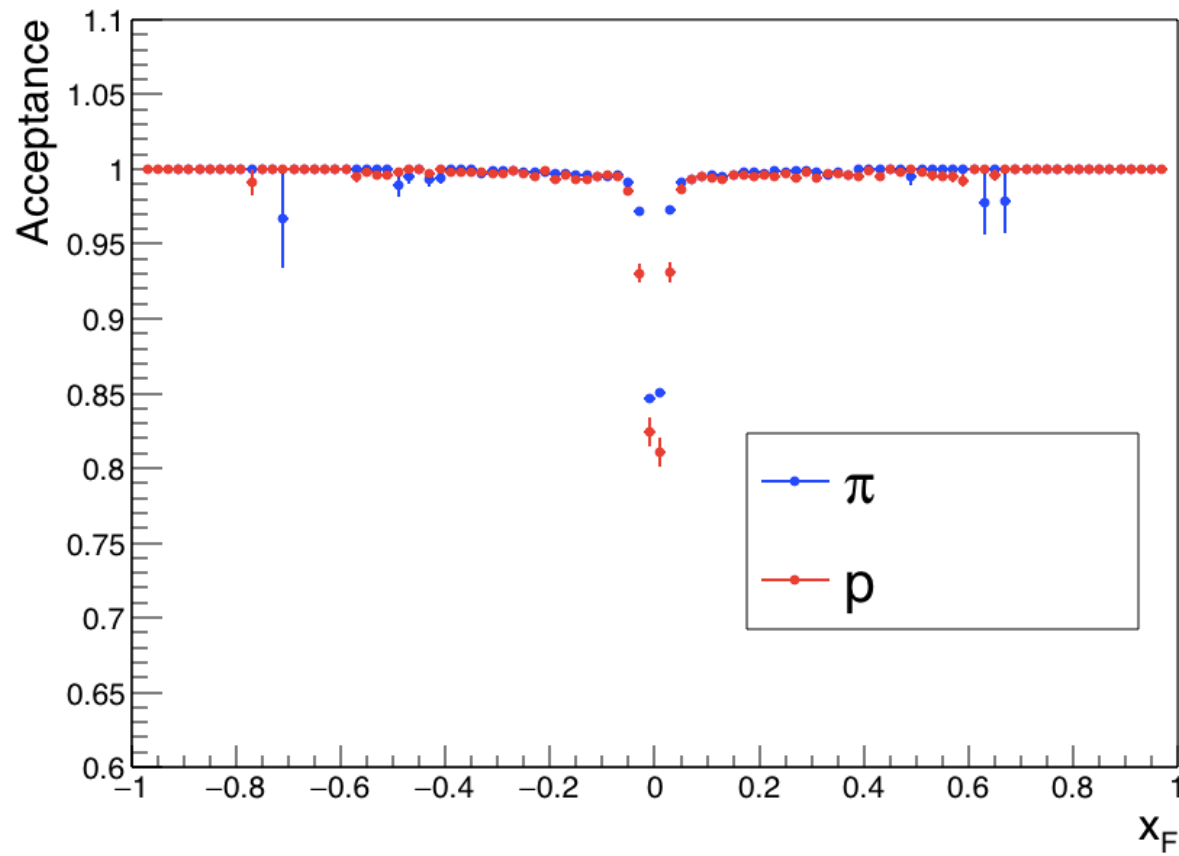
Acceptance



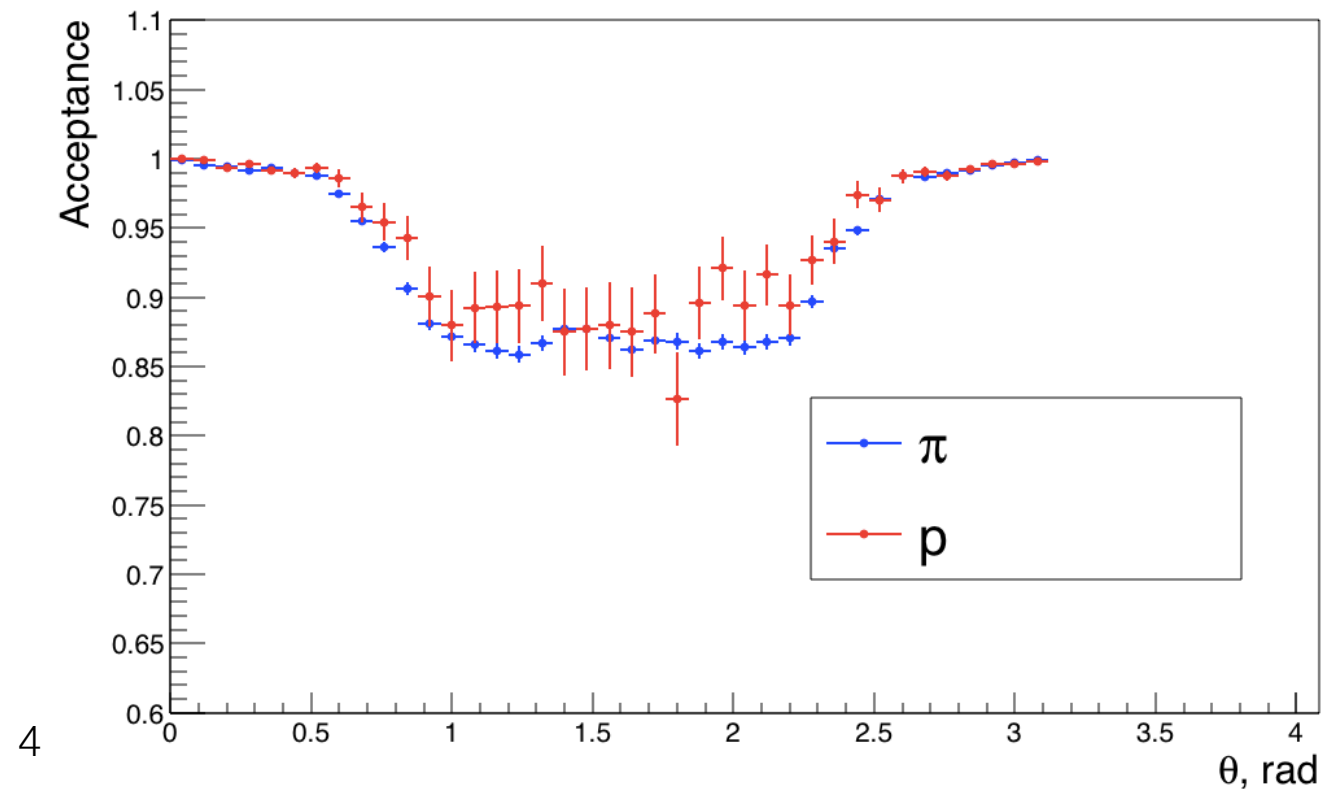
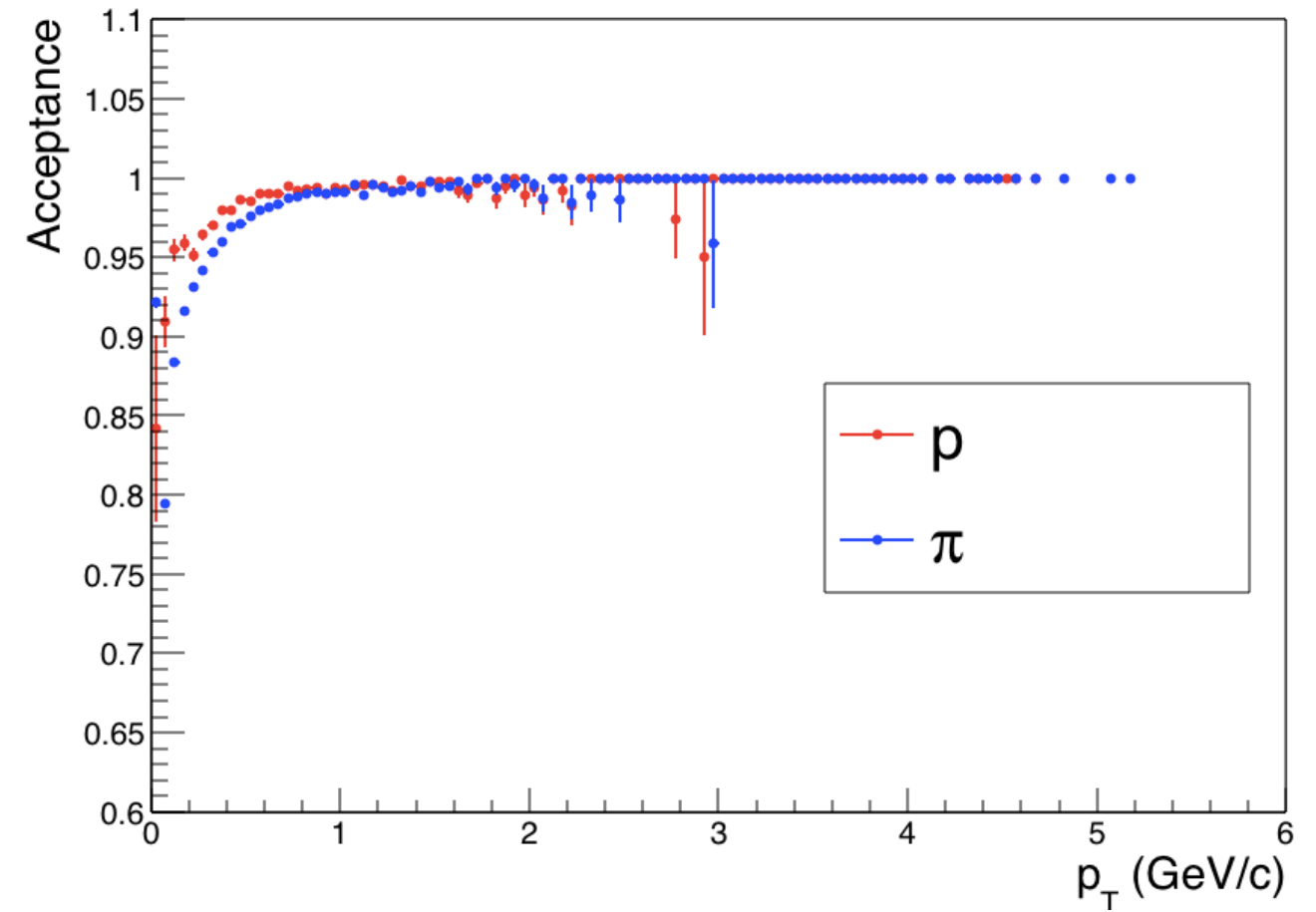
Acceptance distributions are shown for all charged tracks.



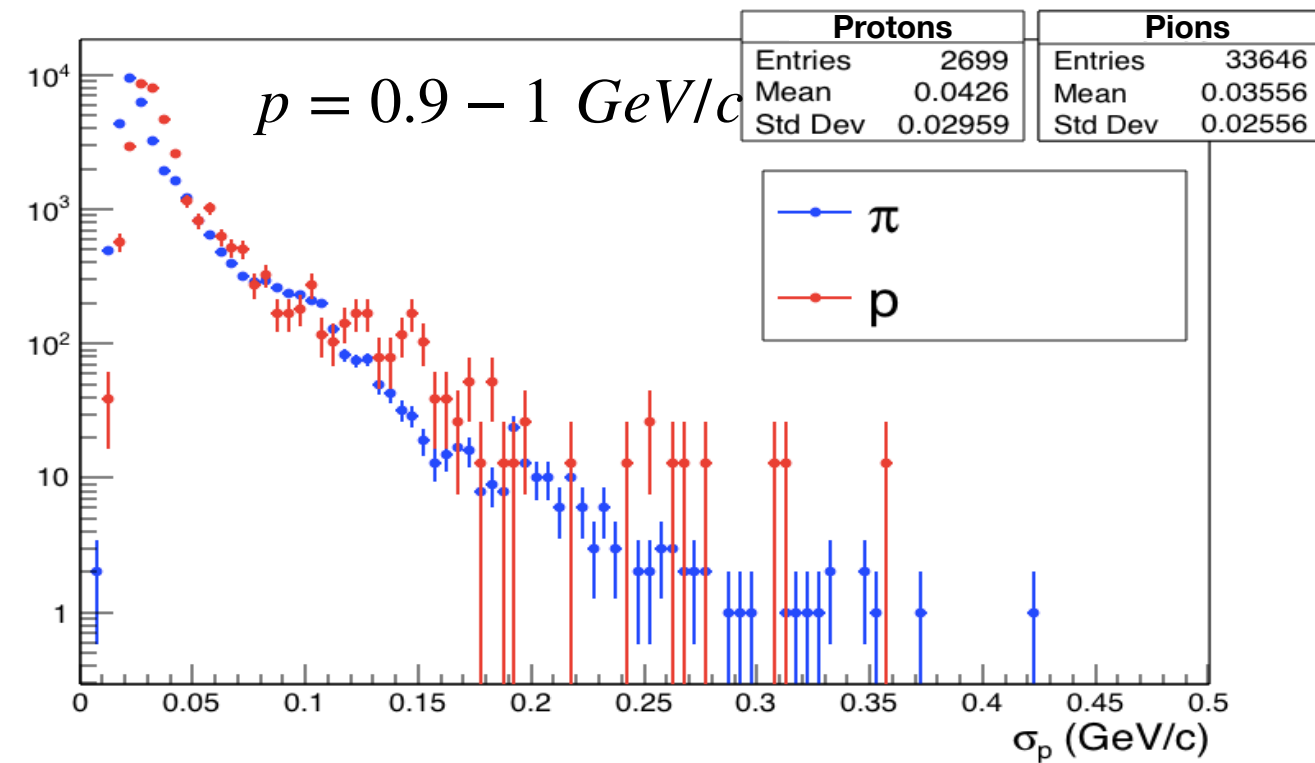
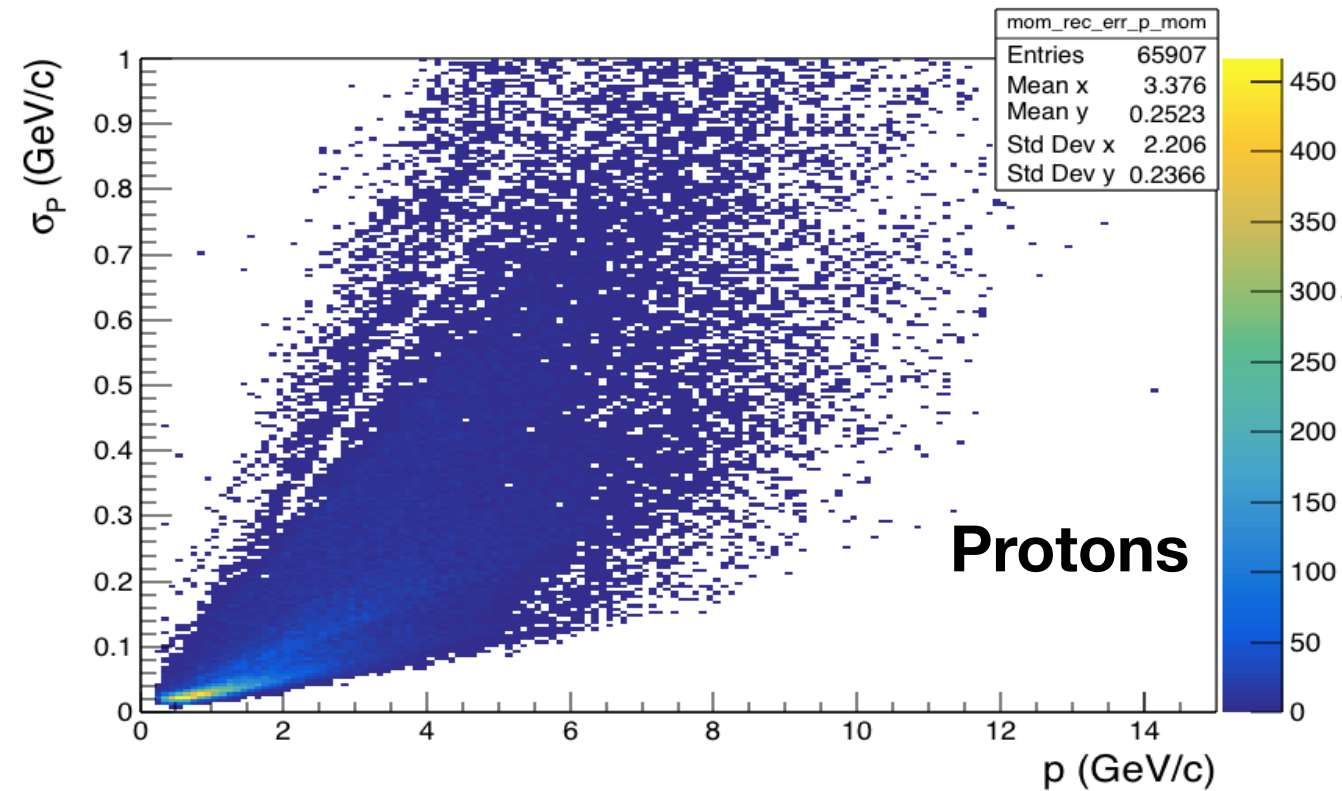
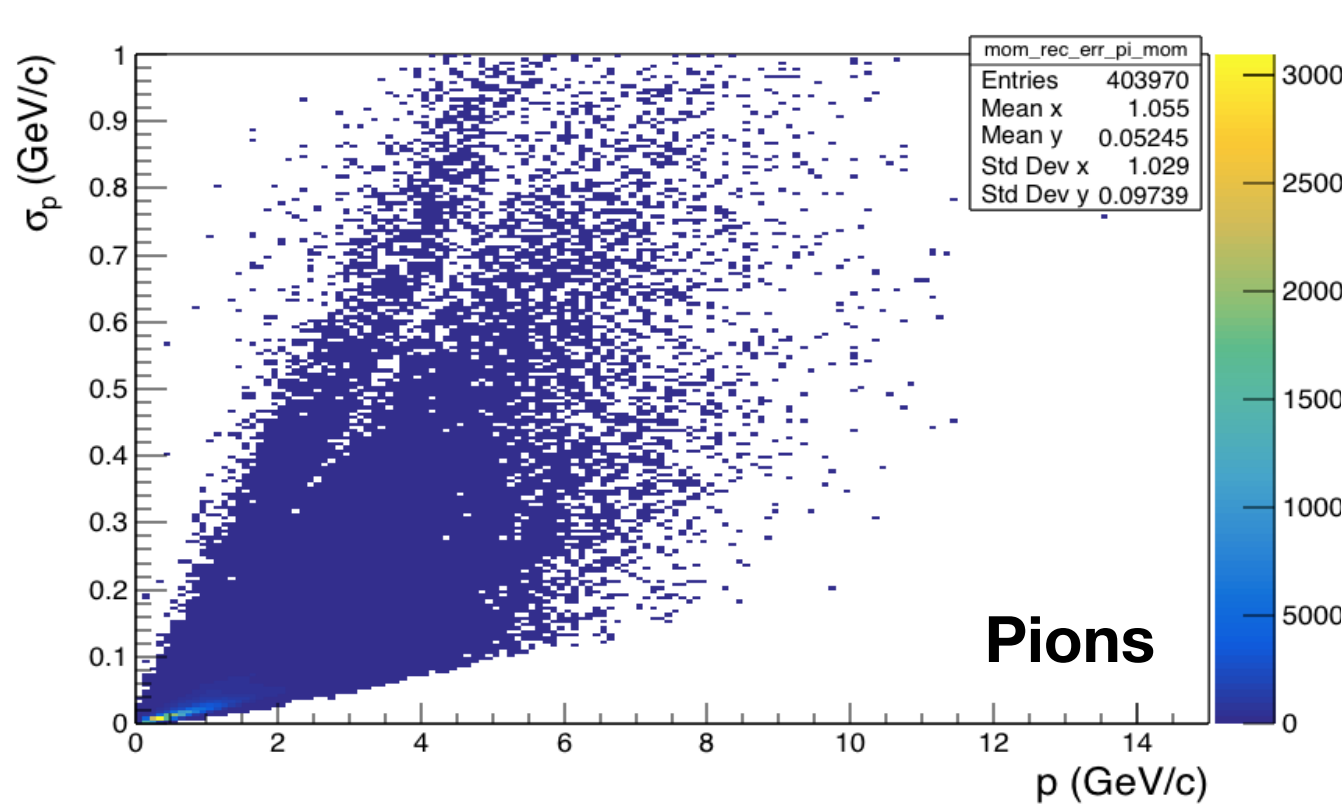
Acceptance



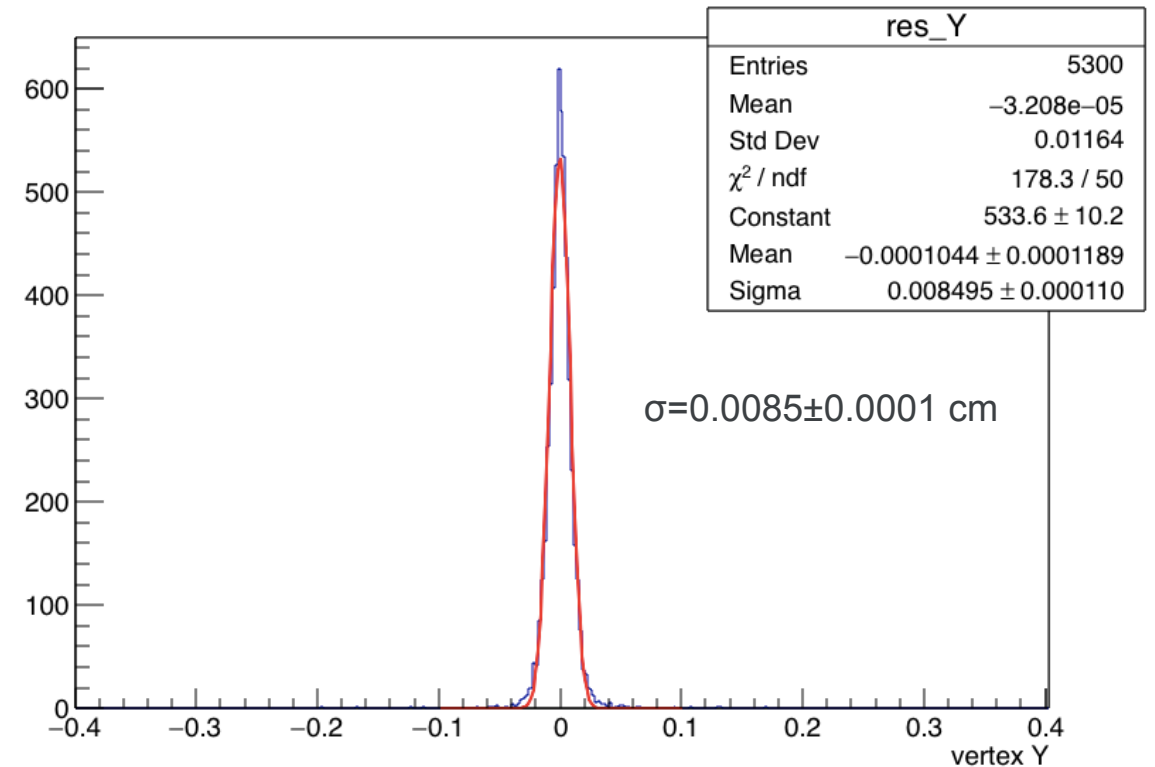
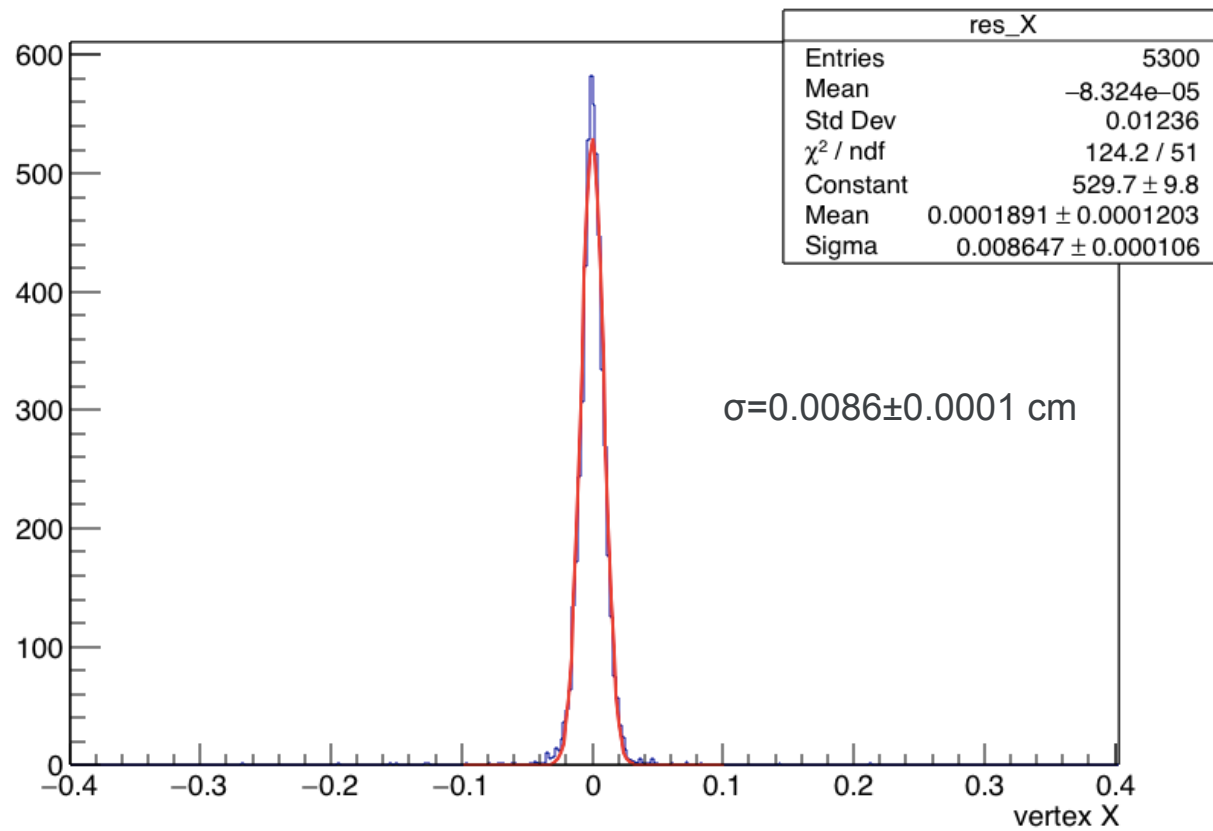
Acceptance distributions are shown for all tracks passed IsGood cut.



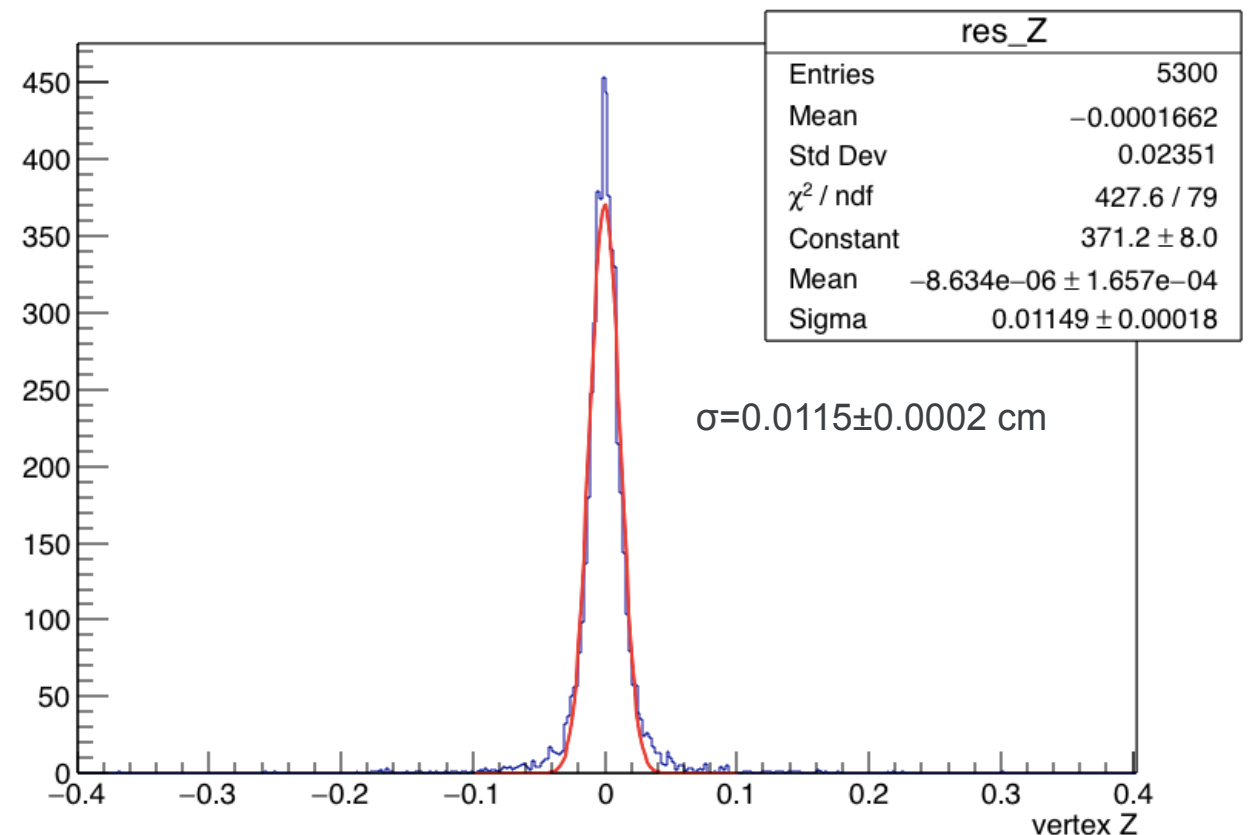
Error of momentum reconstruction



Primary vertex resolution

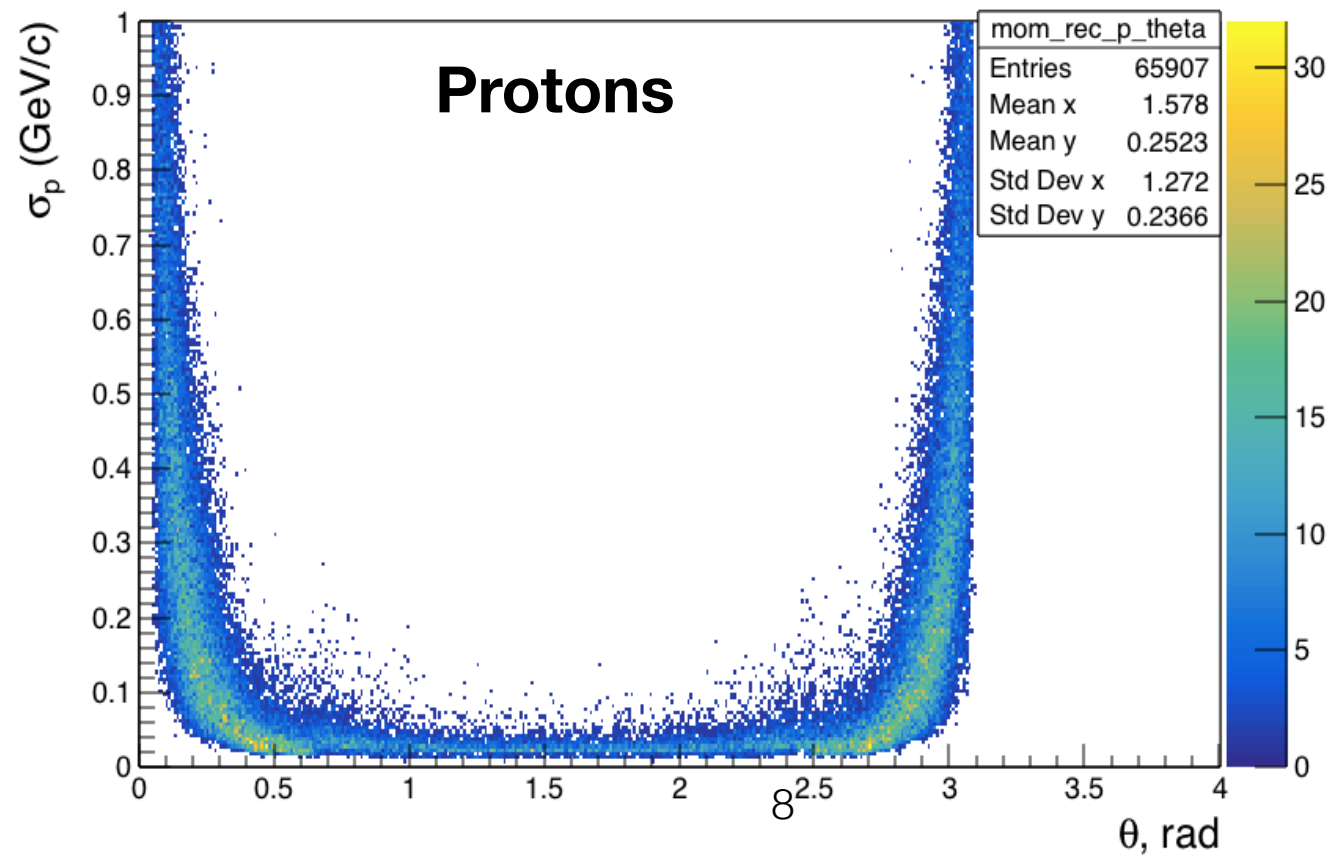
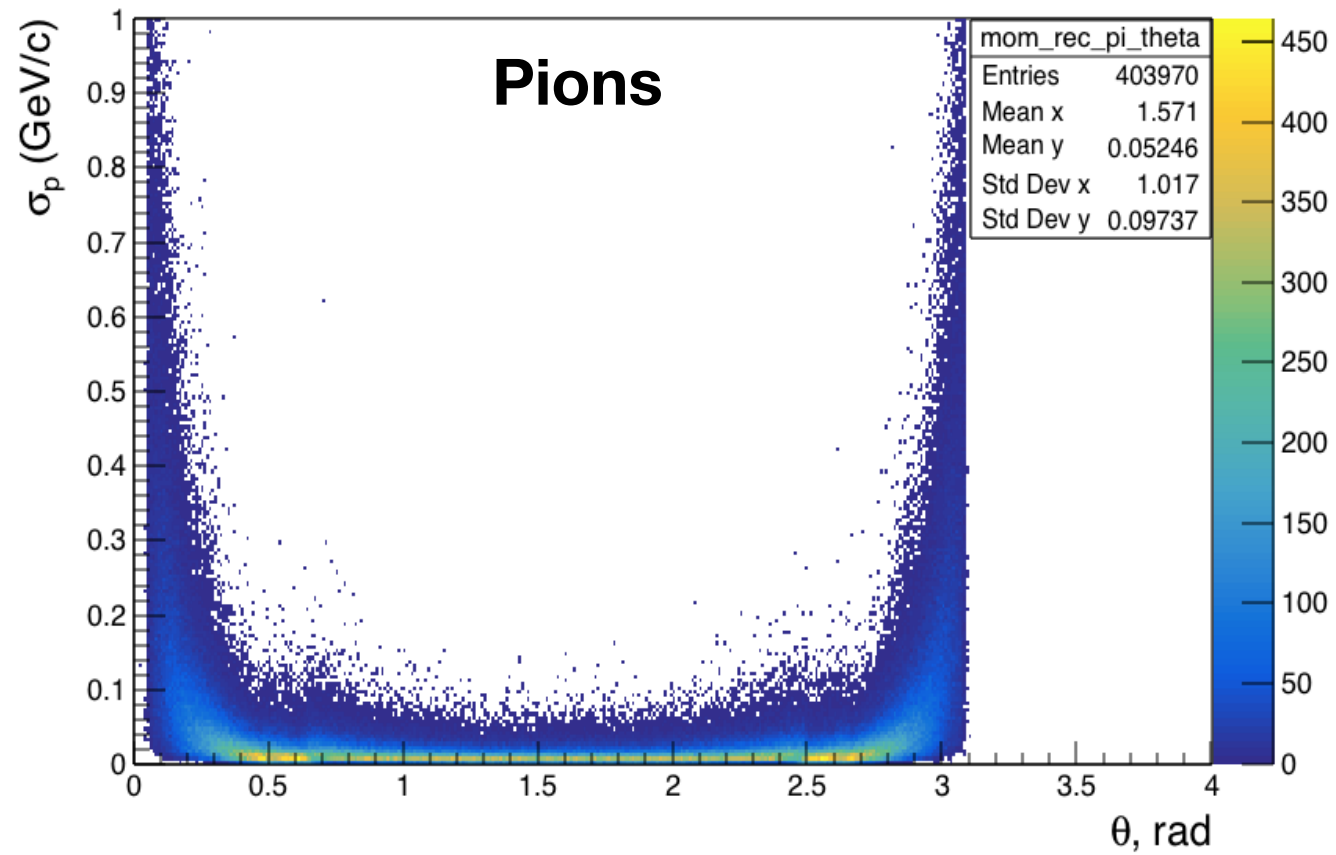


Primary vertex always
generated at (X,Y,Z)=(0, 0, 0).

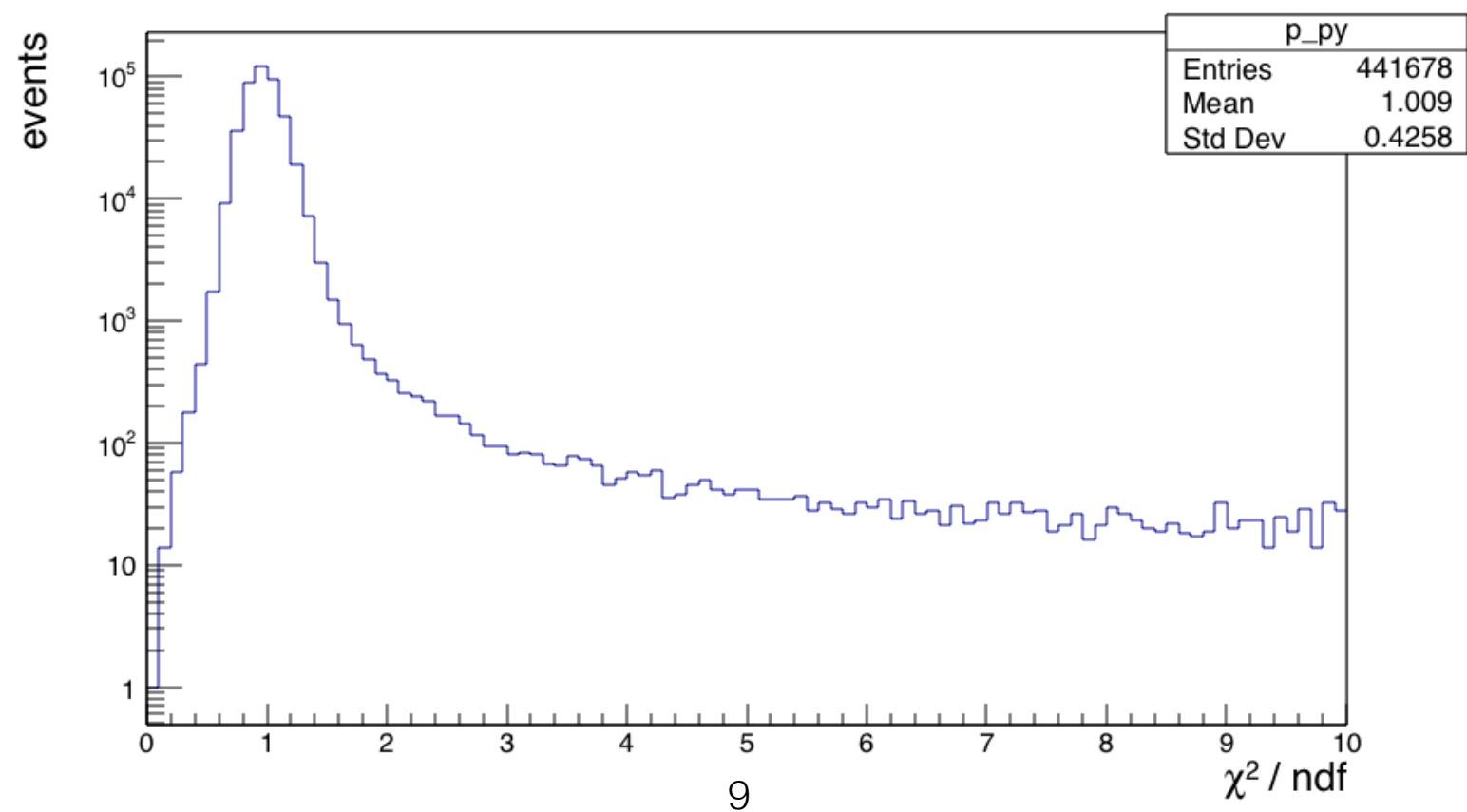
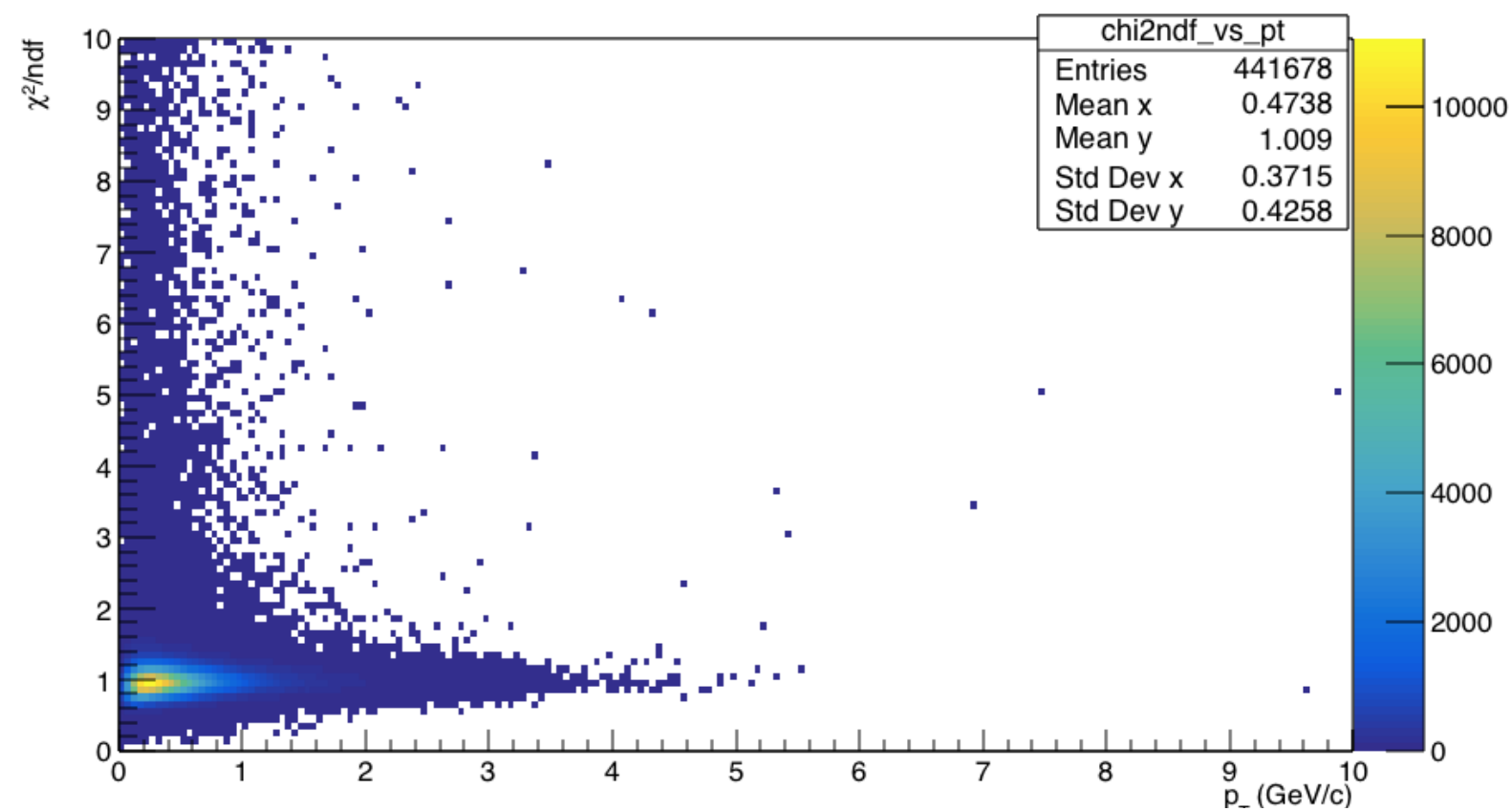


Backup

Error of momentum reconstruction



Track chi2/ndf



Resolution

